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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/797,384	03/10/2004	Yun Namkoong	04-06	3202
22443 7590 11/28/2007 LAW OFFICE OF MONICA H CHOI P O BOX 3424 DUBLIN, OH 430160204			EXAMINER DANG, HUNG Q	
			ART UNIT 2621	PAPER NUMBER
			MAIL DATE 11/28/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/797,384

Applicant(s)

NAMKOONG ET AL.

Examiner

Hung Q. Dang

Art Unit

2621

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 25 October 2007.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3, 5, 7-9, 12-14, 16 and 18-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3, 5, 7-9, 12-14, 16, and 18-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 10 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 11/13/2006.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Response to Arguments

Applicant's arguments filed 10/25/2007 have been considered but are moot in view of the new ground(s) of rejection.

Claim Objections

Claims 1 and 3 are objected to because of the following informalities: claim 1 recites steps A, B, C, D, and E. Claim 3 recites steps A and B. Direct descriptive language should be used instead. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3, 5, 8, 12, 14, 16, and 19 are rejected under 35 U.S.C. 102(b) as being anticipated by Hirata et al. (US 6,625,755).

Regarding claim 1, Hirata et al. disclose a method of retrying reading or writing of data (column 2, lines 39-46), comprising: (A) determining a required time period for performing a retrying type of reading or writing of the data (column 7, lines 20-25); (B) terminating retrying of reading or writing of the data if the required time period is greater than a remaining retrying limitation time (column 7, lines 32-37); determining whether the data is a predetermined type of data (column 7, lines 44-52); performing the steps A and B only if the data is the predetermined type of data (column 9, lines 1-8) and not

performing the following steps C, D, and E if the data is the predetermined type of data (column 9, lines 1-8); (C) determining a total count of retries for the reading or writing of the data (column 6, lines 12-18); (D) performing another retry if the total count of retries is not greater than a predetermined maximum number of retries (column 6, lines 15-22); (E) terminating retrying of reading or writing of data if the total count of retries is greater than the predetermined maximum number of retries (column 6, lines 26-40); and performing steps C, D, and E only if the data is not the predetermined type of data (column 6, lines 42-54; column 9, lines 1-8); wherein a same order of retry types is followed (column 6, lines 18-25; column 7, lines 25-30; Fig. 5; Fig. 6) according to a retry table for both when the data is the predetermined type and when the data is not the predetermined type (abstract).

Regarding claim 3, Hirata et al. also disclose determining whether an error has occurred during an initial reading or writing of the data or during a prior retry of reading or writing of the data; and performing steps (A) and (B) if said error has occurred (column 7, lines 15-30).

Regarding claim 5, Hirata et al. also disclose the predetermined type of data is A/V (audio or video) data (column 8, lines 45-50).

Regarding claim 8, Hirata et al. also disclose performing a retry of reading or writing the data for the retrying type if the required time period is not greater than the remaining retrying limitation time (column 7, lines 25-30).

Claim 12 is rejected for the same reason as discussed in claim 1 above.

Claim 14 is rejected for the same reason as discussed in claim 3 above.

Claim 16 is rejected for the same reason as discussed in claim 5 above.

Claim 19 is rejected for the same reason as discussed in claim 8 above.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 2 and 13 are rejected under 35 U.S.C. 102(b) as being unpatentable over Hirata et al. (US 6,625,755) as applied to claims 1, 3, 5, 8, 12, 14, 16, and 19 above, and further in view of Makita et al. (JP Application No. 10-138420 – reference will be made to a copy of its translation attached).

Regarding claim 2, see the teachings of Hirata et al. as discussed in claim 1 above. However, Hirata et al. do not disclose starting to time down from the retrying limitation time after a request for reading or writing of the data is generated.

Makita et al. also disclose starting to time down from the retrying limitation time after a request for reading or writing of the data is generated ([0015]).

One of ordinary skill in the art at the time the invention was made would have been motivated to incorporate the feature of timing down from the retrying limitation time after a request for reading or writing of the data is generated as disclosed by Makita et al. into the method disclosed by Hirata et al. as a choice of implementation.

Claim 13 is rejected for the same reason as discussed in claim 2 above.

Claims 7 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hirata et al. (US 6,625,755) as applied to claims 1, 3, 5, 8, 12, 14, 16, and 19 above, and further in view of Sato et al. (JP Application No. 09-217835 - reference will be made to a copy of its translation attached).

Regarding claim 7, see the teachings of Hirata et al. as discussed in claim 1 above. Further, Hirata et al. also disclose determining the required time period for the retrying type of the lookup table (column 7, lines 21-23). However, Hirata et al. do not disclose determining the retrying type of reading or writing from a sequential order of retrying types as stored within a lookup table.

Sato et al. disclose determining the retrying type of reading or writing from a sequential order of retrying types as stored within a lookup table ([0007], [0008], [0009]).

One of ordinary skill in the art at the time the invention was made would have been motivated to incorporate the steps of determining the retrying type of reading or writing and determining the required time period from a lookup table as disclosed by Sato et al. into the method disclosed by Hirata et al. for efficiency reason (see Sato et al., [0009]).

Claim 18 is rejected for the same reason as discussed in claim 7 above.

Claims 9 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hirata et al. (US 6,625,755) as applied to claims 1, 3, 5, 8, 12, 14, 16, and 19 above.

Regarding claim 9, see the teachings of Hirata et al. as discussed in claim 1 above. Further, Hirata et al. also disclose the data is read or written within a magnetic

disc drive (Fig. 2). However, Makita et al. do not disclose the magnetic disk drive to be a hard disk drive.

It is noted that hard disk drives are very well known in the art at the time of invention. Thus, Official Notice is taken.

One of ordinary skill in the art at the time the invention was made would have been motivated to incorporate the hard disk drive into the method disclosed by Hirata et al. because of hard disk drives' large capacity and small access time.

Claim 20 is rejected for the same reason as discussed in claim 9 above.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

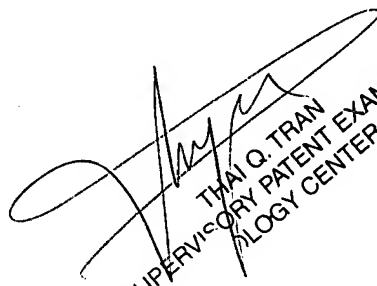
A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung Q. Dang whose telephone number is 571-270-1116. The examiner can normally be reached on M-Th:7:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thai Tran can be reached on 571-272-7382. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Hung Dang
Patent Examiner


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